VALUE ENGINEERING CHANGE PRÖPOSAL MISSOURI DEPARTMENT OF TRANSPÖRTATION

· ,	4 5	Date July 10, 2008
Contract ID 080523-403	#5	Job NoJ4P2020
County Lafayette	Route 24	Original Bid Cost 955,713.16
Contractor APAC Inc.		By Casey Castrop
Designed By MODOT	•	Phone 573-449-0886
VECP# VECP	08-65	VECP Or VECP/PDU
1. Description of existing requi	irements and proposed cha	nge(s). Adväntages/Disadvantages
		e milling and increase thickness of BP-1
surface course to 2". Advantag	es to this proposal are as fo	llows: eliminate anticipated but unknown
		way, increased safety due to lower depth
transition milling, less impact o	n traveling public by using	less passes of paving train.
2. Estimate of reduction in con	struction costs. \$361,13	34 15
3. Prediction of any effects the		ve on other department costs, such as
maintenance and operations		- -
Lower shoulder profile grade w	ill aid in mowing slopes.	
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Specifications.	ai oi detaned change(s) of i	tems required by Section 104.6 of the
•		
•	(date)	
Deadline for issuing a chang completion time or delivery		cost reduction, noting the effect of contract
8/01/08	Material delivery to aspl	
(date)	ı	(effect)
6. Dates of any previous or con	overent swhmission of the s	ama nyonoëôl
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	(date and/or date	
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Additional Comments:

** Portion Below This Line To Be Filled Out by MoDOT **

Comments:	ATTACHED	
		•
	2-1-2	
	Submitted By Resident Engineer BRIAN 1185	Date
Comments:	ESAMPLES OF EXISTING	DO: NOT SOPPORT.
M	ILLING AS A VIABLE RETTY	4BILITATION OPITON.
	Finalist a. With	(VV)
Approval	Comment a. M. W.	
Recommended		7/25/08
Rejection	District Engineer	— — Date
Recommended .		,
	Process	
Comments: Exc 5 71	NO ROADWAY CONDITION MAIC	BS THIS OPTION
	POSSIBLE	
700 (
Approval	Dave allers by J 250	B- 8-4-08
Rejection	State Construction and Materials Engineer	Date
77.		

Distribution:

Resident Engineer, Project Manager, District Operations Engineer, State Constructivii and Materials Engineer *Value Engineering Administrator - *MoDOT, P.O. Box 270, Jefferson City, MO 65102

V.E. Proposal #5

Savings due to new proposal

	52 (\$2,6) ·			
Line No.	🌉 Item Description	Quantity	Unit Price	Amount
0040	Surface Levéling	19,588.30	\$48.79	\$955,713.16
???	anticipated BP-1 shoulder overrun	??		a lot
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Total= \$955,713.16

Costs due to new proposal(in addition to original plans)

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Line No.	// Item Description	Quanti <u>ty</u>	Unit Price	Amount
0041	1" Milling 🐯	276629,0	\$1.49	\$412,177.21
0030	Additional 1¼" of BP-1 on mainline	3804	\$47.95	\$182,401.80
	raciba	enijenije.		
	100	, Notices		

* - Original plans had 1.75" through this area

Total= \$594,579.01

Net Savings for new Proposal

Savings due to fiew proposal: \$955,713.16

Costs due to new proposal(in addition to original plans): _-\$594,579.01

Net Value Engineering Savings: \$361,134.15

Total Value Engineering Savings for the Contractor(50%): \$180,567.08
Total Value Engineering Savings for M@DOT(50%): \$180,567.08

MEMORANDUM



Missouri Department of Transportation

Construction Richmond Project Office

TO:

Perry Allen-4co

CC:

File

FROM:

Brian K. Iles

Resident Engineer

DATE:

July 21, 2008

SUBJECT:

VE Concept Proposals

Job No. J4P2020 and J4M0202 $\,$

Contract ID 080523-403

Route 24 and Route P, Lafayette County

Attached are five Construction Value Engineering Concept Proposals for the above referenced projects submitted by APAC-MO. The following are my recommendations for each VECP. Feel Free to contact me with any questions or comments.

VECP No. 1 – J4M0202 (Rte. P)

The contractor proposes eliminating the modified cold milling on the north and south end of this project. The north end of Rte. P ends at railroad tracks. There is a gravel entrance for the railroad to access the tracks. The contract includes crushed stone for this entrance. The south end of Rte. P ends at Rte. 24. The Project Manager, Paul Boenishch, indicated that this project was designed to be let alone and that is why the modified milling was included in the contract at the Rte. 24 intersection. Since the project was let combination with the Rte. 24 overlay, the modified milling is unnecessary. APAC intends to install the Rte. 24 overlay prior to overlaying Rte. P. There will be a 1.75-inch elevation difference between Rte. 24 and Rte. P for approximately two weeks. MoDOT will require the contractor to install a wedge until the Rte. P overlay is connected to Rte. 24.

I recommend approval of this Construction Value Engineering Concept Proposal No. 1.

VECP No. 2 – J4M0202 (Rte. P)

The contractor proposes installing 1.75-inches of BP-1 in lieu of the contract specified 0.5-inch of BP-3 and 1.25-inch of BP-2. Rte. P has significant rutting caused by trucks used to repair the railroad bed after the flooding that occurred the spring of 2007. This contract does not include quantity for irregularities. The BP-3 will overrun significantly to backfill the rutting. If used, the BP-1 would significantly overrun as well, which would negate any savings. This roadway needs a surface leveling before installation of a surface lift. In addition, the BP-3 is a better mix for backfilling the severe irregularities. Therefore, I recommend this proposal be denied.

VECP No. 3 - J4P2020 (Rte. 24)

The contractor proposes eliminating the 3.5-inch BP-1-overlay on the mainline-concrete adjacent-to the Tabo Creek Bridge but still install 3.75-inch, 4-foot wide shoulders. The existing concrete surface is in poor condition. In fact, this stretch will receive nearly 195 pavement repairs as part of this project. On July 10 2008, MoDOT determined to change the overlay thickness on the concrete from 3.50-inches to a minimum thickness of 2.75-inches to avoid encountering steel when conducting modified milling. MoDOT informed the contractor of this in a letter dated July 10, 2008. I recommend this proposal be denied because of the poor condition of the existing concrete.

VECP No. 4 - J4P2020 (Rte. 24)

The contractor proposes using a tack coat in lieu of a prime coat on the existing shoulders. APAC-MO inquired about this item in a phone call on July 14, 2008. There was no mention of value engineering at the time of the phone conversation with the contractor. This office contacted central office for a recommendation on the same day. Central Office informed this office that no prime is necessary. MoDOT informed the contractor that the prime was unnecessary in a letter dated July 14, 2008. Therefore, MoDOT did inform the contractor of the underrun prior to this proposal submittal. As result, I recommend the proposal be denied or only be considered as a practical engineering savings (75/25).

VECP No. 5 - J4P2020 (Rte. 24)

MoDOT has requested the contractor submit information about the existing roadway condition before MoDOT will consider the proposal for acceptance. We requested at least one core per mile to adequately indicate the condition of the roadway. The contractor has agreed to do this. My recommendation will be based on the results of the cores.

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INCLUDES ANY MILLING
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DENIAL OF THIS VECP
NO. 5. POR

VALUE ENGINEERING CHECK SHEET

TYPE OF WORK

(Check one that applies)

- □ Bridge/Structure/Footings
- □ Drainage Structures (RCP, RCB, CMP's, ect.)
- □ TCP/MOT
- X Paving (PCCP, ect.)
- □ Grading/MSE Walls
- □ Signal/Lighting/ITS
- □ Misc. _____

SUMMARY OF PROPOSAL

(If needed, condense summary to a couple of lines)

Use 1 inch profile mill in lieu of planned 1 inch level course.	
	

SCANNING OF DOCUMENT

If the proposal is large, please mark or make note, which pages need to be scanned into the database	se. If
there are special instructions, make note of them here.	

Scan entire document